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Form PTO-1449

Docket Number: 559442000113

Application Number: 09/699,163

INFORMATION DISCLOSURE CITATION  
IN AN APPLICATION

(Use several sheets if necessary)

Applicant

Michael J. FREEMAN et al.

Filing Date: October 27, 2000

Group Art Unit: 2611

Mailing Date: February 11, 2004

## U.S. PATENT DOCUMENTS

| Examiner<br>Initials | Ref.<br>No. | Date | Document No. | Name | Class | Subclass | Filing Date If<br>Appropriate |
|----------------------|-------------|------|--------------|------|-------|----------|-------------------------------|
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## FOREIGN PATENT DOCUMENTS

| Examiner<br>Initials | Ref.<br>No. | Date       | Document No.   | Country | Class | Subclass | Translation<br>YES NO |
|----------------------|-------------|------------|----------------|---------|-------|----------|-----------------------|
| KB                   | 3.          | 02/01/1996 | 44 27 046 A1   | GERMANY |       |          | X                     |
|                      | 4.          | 03/07/1996 | 44 31 438 A1   | GERMANY |       |          | X                     |
|                      | 5.          | 06/19/1997 | WO 97/22207    | PCT     |       |          | Abstract X            |
| KB                   | 6.          | 11/25/1998 | EP 0879 536 B1 | EUROPE  |       |          | X                     |
|                      | 7.          |            |                |         |       |          |                       |

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| Examiner<br>Initials | Ref.<br>No. | Title   |
|----------------------|-------------|---|
| KB                   | 8.          | "Funkschau Fachzeitschrift für elektronische Kommunikation", Volume 6/96 of 3-1-96., pages 70-75. and English Translation of extract from Funkschau Fachzeitschrift für elektronische Kommunikation". |
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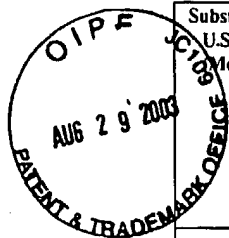
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| Substitute for form 1449A/PTO<br>U.S. DEPARTMENT OF COMMERCE<br>(Modified) - PATENT AND TRADEMARK OFFICE |   |    |   | ATTY. DOCKET NO.:<br>5038.25            | APPLICATION NO.:<br>09/699,163 |
| INFORMATION DISCLOSURE<br>STATEMENT BY APPLICANT<br><br>(Use as many sheets as necessary)                |   |    |   | FIRST NAMED INVENTOR:<br>FREEMAN et al. |                                |
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| Sheet  | 1 | of | 1 | EXAMINER NAME:<br>Andrew I. FAILE       |                                |

### U.S. PATENT DOCUMENTS

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| KB                    | A                        | CA-2,186,027  | 09-28-1995          | SEARBY   |   |                |
| KB                    | B                        | CA-2,345,161  | 06-09-1994          | BERKOBIN et al.                                    |   |                |
| KB                    | C                        | CA-2,245,841  | 08-14-1994          | FREEMAN et al.                                     |   |                |
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### OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

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|-----------------------|--------------------------|---|-----------------------------|
| KB                    | E                        | Canadian Intellectual Property Office Communication, July 21, 2003, pp. 1-5.  |                             |
| KB                    | F                        | European Patent Office Communication pursuant to Article 96(2) EPC, July 3, 2003, pp. 1-4.  |                             |
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| Sheet <b>1</b> of <b>1</b>  |  |  | FIRST NAMED INVENTOR:<br>FREEMAN-et al. |                                |
|   |  |  | FILING DATE:<br>October 27, 2000        | ART UNIT:<br>2611              |
|   |  |  | EXAMINER NAME:<br>FAILE, Andrew I.      |                                |

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| KB                    | A                        | GB 2,290,431  | 12-20-1999          | VIDEOTRON GROUPE LTEE                              |   |                |
| KB                    | B                        | EP 0 632 659 A  | 01-04-1995          | AT&T   |   |                |
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|-----------------------|--------------------------|---|----------------|
| KB                    | C                        | WILLEBEEK-LEMAIR, et al., On Multi-point Control Units for Videoconferencing, 1994, pp. 356-364, IBM T. J. Watson Research Center.  |                |
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|   |                                   | FILING DATE:<br>27 October 2000         | ART UNIT:<br>2611              |
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|--------------------|-----------------------|--|------------------|---|---|
|                    |                       | Number - Kind Code <sup>2</sup> (if known) | MM-DD-YYYY       |   |   |
| KB                 |                       | US-5,613,909                               | 03/25/1997       | STELOVSKY                                       |   |
| KB                 |                       | US-5,745,126                               | 04/28/1998       | JAIN et al.                                     |   |
| KB                 |                       | US-5,729,471                               | 03/17/1998       | JAIN et al.                                     |   |

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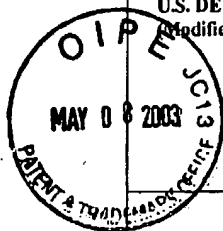
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| KB                    |                          | US-5,613,909                                  | 03/25/1997          | STELOVSKY  |  |
| KB                    |                          | US-5,745,126                                  | 04/28/1998          | JAIN et al.  |  |
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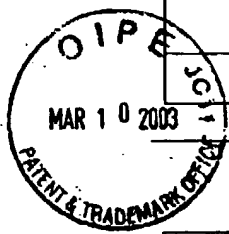
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|   |   | FILING DATE:<br>October 27, 2000        | ART UNIT:<br>2611              |
|   |   | EXAMINER NAME:<br>FAILE, Andrew I.      |                                |
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| Substitute for form 1449A/PTO<br>U.S. DEPARTMENT OF COMMERCE<br>(Modified) PATENT AND TRADEMARK OFFICE<br><br>INFORMATION DISCLOSURE<br>STATEMENT BY APPLICANT<br><br>(Use as many sheets as necessary) |  |  |  | ATTY. DOCKET NO.:<br>5038.25            |  | APPLICATION NO.:<br>09/699,163 |  |
|   |  |  |  | FIRST NAMED INVENTOR:<br>Freeman et al. |  |                                |  |
|   |  |  |  | FILING DATE:<br>October 27, 2000        |  | ART UNIT:<br>2611              |  |
| Sheet      1      of      1   |  |  |  | EXAMINER NAME:<br>FAILE, Andrew I.      |  |                                |  |

## U.S. PATENT DOCUMENTS

[illegible]**FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION**

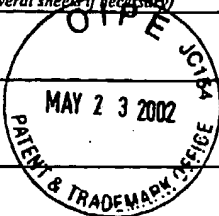
| EXAMINER<br>INITIALS <sup>1</sup> | Cite<br>No. <sup>1</sup>  | DOCUMENT<br>NUMBER  | PUBLICATION<br>DATE | Name of PATENTEE or<br>Applicant of Cited<br>Document | Pages, Columns, Lines,<br>Where Relevant Passages or<br>Relevant Figures Appear | T <sup>6</sup> |
|-----------------------------------|---|---|---------------------|---|---|----------------|
|                                   |   | Country Code <sup>2</sup> -<br>Number <sup>2</sup> - Kind Code <sup>3</sup><br>(if known) | MM-DD-YYYY          |   |   |                |
| KB<br>KB                          | A   | EP 1 061 739 A2   | 12/20/2000          | ACTV, INC.  |   |                |
|                                   | B   | EP 0707426 A  | 04/17/1996          | HITACHI   |   |                |
|                                   | C   |   |                     |   |   |                |
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| EXAMINER<br>SIGNATURE             |  |   |                     | DATE<br>CONSIDERED                                    | 11/19/04  |                |

\* **EXAMINER:** Initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>5</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>6</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>7</sup> Applicant is to place a check mark here if English language translation is attached.



|  |                          |                  |                    |            |
|--|--------------------------|------------------|--------------------|------------|
| <b>INFORMATION DISCLOSURE CITATION</b><br><i>(Use several sheets if necessary)</i> | Docket Number (Optional) | 5038.25          | Application Number | 09/699,163 |
|  | Applicant(s)             |                  |                    |            |
|  | Filing Date              | October 27, 2000 | Group Art Unit     | 2611       |



**U.S. PATENT DOCUMENTS**

| *EXAMINER<br>INITIAL | REF | DOCUMENT NUMBER | DATE     | NAME            | CLASS | SUBCLASS | FILING DATE<br>IF APPROPRIATE |
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| KB                   | AA  | 5357276         | 10/18/94 | Banker, et. al. |       |          |                               |
| KB                   | AB  | 5365346         | 11/15/94 | Abumi           |       |          |                               |
| KB                   | AC  | 5532748         | 7/2/96   | Nainpally       |       |          |                               |
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**FOREIGN PATENT DOCUMENTS**

|    | REF | DOCUMENT NUMBER | DATE     | COUNTRY | CLASS | SUBCLASS | TRANSLATION |    |
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| KB | AE  | 93/22877        | 11/11/93 | WIPO    |       |          |             |    |
| KB | AF  | 96/05699        | 2/22/96  | WIPO    |       |          |             |    |
| KB | AG  | 746198          | 2/14/95  | Japan   |       |          |             |    |

**OTHER DOCUMENTS**      *(Including Author, Title, Date, Pertinent Pages, Etc.)*

|  |    |  |                          |
|--|----|--|--------------------------|
| KB   | AH | Beaudin, S. The Web is Not TV. Copyright 1996.             |                          |
|  | AI | EarthWeb and ACTV Unveil HyperTV Breakthrough. March 1996. |                          |
| EXAMINER   |    |  | DATE CONSIDERED 11/19/07 |
| EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609, Draw line through citation if not in conformance and not considered.<br>Include copy of this form with next communication to applicant. |    |  |                          |

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| <b>INFORMATION DISCLOSURE CITATION</b><br><i>(Use several sheets if necessary)</i> | Docket Number (Optional) | Application Number |
|  | 5038.25                  | 09/699,163         |
|   | Applicant(s)             |                    |
|  | Freeman et. al.          |                    |
|  | Filing Date              | Group Art Unit     |
|  | October 27, 2000         | 2611               |

U.S. PATENT DOCUMENTS

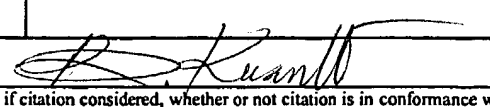
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FOREIGN PATENT DOCUMENTS

|    | REF | DOCUMENT NUMBER | DATE    | COUNTRY | CLASS | SUBCLASS | TRANSLATION |    |
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| I  | BB  | 99/39506        | 8/5/99  | WIPO    |       |          |             |    |
| I  | BC  | 98/54902        | 12/3/98 | WIPO    |       |          |             |    |
| KB | BD  | 98/32284        | 7/23/98 | WIPO    |       |          |             |    |

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)



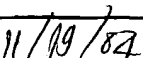
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| KB   | BE | Proffit, "InterCast Brings the Web to TV", PC Magazine, January 21, 1997. |
| KB   | BF | "Verknuepfung Von TV Mit Internet", August 16, 1996.                      |
| EXAMINER   |    | DATE CONSIDERED   |
|   |    | 11/19/07  |
| EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609, Draw line through citation if not in conformance and not considered.<br>Include copy of this form with next communication to applicant. |    |   |

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|    | REF | DOCUMENT NUMBER | DATE     | COUNTRY | CLASS | SUBCLASS | TRANSLATION |    |
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|    |     |                 |          |         |       |          | YES         | NO |
| KB | CA  | 98/32281        | 7/23/98  | WIPO    |       |          |             |    |
|    | CB  | 97/45965        | 12/4/97  | WIPO    |       |          |             |    |
|    | CC  | 96/37075        | 11/21/96 | WIPO    |       |          |             |    |
| KB | CD  | 99/26415        | 5/27/99  | WIPO    |       |          |             |    |

|   |    |   |
|---|----|---|
|    | CE | Yu, "Design and Analysis of a Look-Ahead Scheduling Scheme," 1995.                    |
|   |    |   |
| EXAMINER  |    | DATE CONSIDERED   |
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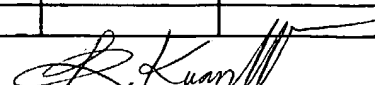
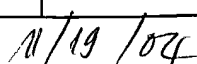
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|   |   |    |   | FIRST NAMED INVENTOR:<br>Freeman et al. |  |                                |  |
|   |   |    |   | FILING DATE:<br>October 27, 2000        |  | ART UNIT:<br>2611              |  |
| Sheet   | 1 | of | 1 | EXAMINER NAME:<br>Tran, Hai V.          |  |                                |  |

### U.S. PATENT DOCUMENTS

| EXAMINER<br>INITIALS* | Cite<br>No. <sup>1</sup> | DOCUMENT<br>NUMBER                            | PUBLICATION<br>DATE | Name of<br>PATENTEE or<br>Applicant of Cited<br>Document | Pages, Columns, Lines, Where Relevant<br>Passages or Relevant Figures Appear |
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|                       |                          | Number - Kind Code <sup>2</sup><br>(If known) | MM-DD-YYYY          |  |  |
| KB                    |                          | US-6,072,521                                  | 06/06/2000          | HARRISON et al.  |  |
|                       |                          | US-   |                     |  |  |
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### FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

| EXAMINER<br>INITIALS* | Cite<br>No. <sup>1</sup>  | DOCUMENT<br>NUMBER  | PUBLICATION<br>DATE | Name of PATENTEE or<br>Applicant of Cited<br>Document | Pages, Columns, Lines,<br>Where Relevant Passages or<br>Relevant Figures Appear       | T <sup>6</sup> |
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<sup>1</sup> Applicant's unique citation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>5</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>6</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>7</sup> Applicant is to place a check mark here if English language Translation is attached.





# INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

ATTY DOCKET NO.  
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SERIAL NO.  
09/699,163

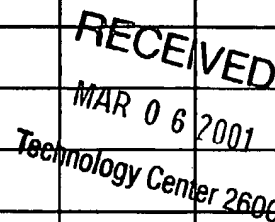
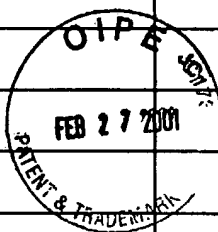
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## U.S. PATENT DOCUMENTS

| *EXAMINER<br>INITIAL |   | DOCUMENT NUMBER | DATE     | NAME             | CLASS | SUBCLASS | FILING DATE<br>IF APPROPRIATE |
|----------------------|---|-----------------|----------|------------------|-------|----------|-------------------------------|
| KB                   | A | 5,027,400       | 06/25/91 | BAJI et al.      | 380   | 20       |                               |
|                      | B | 5,534,944       | 07/09/96 | EGAWA et al.     | 348   | 584      | RECEIVED                      |
|                      | C | 5,600,573       | 02/04/97 | HENDRICKS et al. | 364   | 514 R    | APR 18 2001                   |
| KB                   | D | 5,610,661       | 05/11/97 | BHATT            | 348   | 446      | Technology Center 260         |
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## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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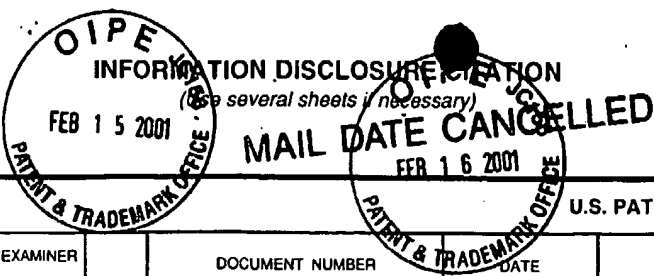

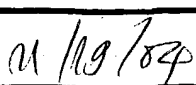
*B. Kuan*

DATE CONSIDERED

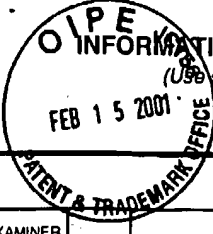
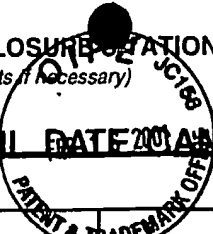
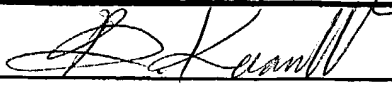
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|     |    |                 |   | ATTY DOCKET NO.<br>5038.25  |       | SERIAL NO.<br>09/699,163 |                               |                            |  |
|---|----|-----------------|---|---|-------|--------------------------|-------------------------------|----------------------------|--|
|   |    |                 |   | FREEMAN et al.  |       |                          |                               | FILING<br>October 27, 2000 |  |
| U.S. PATENT DOCUMENTS   |    |                 |   |   |       |                          |                               |                            |  |
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| KB  | AA | 3947972         | 4/6/76  | FREEMAN   |       |                          |                               |                            |  |
|   | AB | 4034990         | 7/12/77   | BAER  |       |                          |                               |                            |  |
|   | AC | 4264924         | 4/28/81   | FREEMAN   |       |                          |                               |                            |  |
|   | AD | 4264925         | 4/28/81   | FREEMAN et al.  |       |                          |                               |                            |  |
|   | AE | 4290142         | 9/15/81   | SCHNEE et al.   |       |                          |                               |                            |  |
|   | AF | 4361730         | 10/30/82  | BARBER et al.   |       |                          |                               |                            |  |
|   | AG | 4530008         | 7/15/85   | MCVOY   |       |                          |                               |                            |  |
|   | AH | 4536791         | 8/20/85   | CAMPBELL et al.   |       |                          |                               |                            |  |
|   | AI | 4507680         | 3/26/85   | FREEMAN   |       |                          |                               |                            |  |
|   | AJ | 4573072         | 2/25/86   | FREEMAN   |       |                          |                               |                            |  |
| KB  | AK | 4602279         | 7/22/86   | FREEMAN   |       |                          |                               |                            |  |
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| KB  | AL | 4207885         | 7/29/92   | Japan   |       |                          |                               |                            |  |
|   | AM | 6165170         | 6/10/94   | Japan   |       |                          |                               |                            |  |
|   | AN | 994233          | 6/2/65  | Germany   |       |                          |                               |                            |  |
|   | AO | 128481          | 12/19/84  | Europe  |       |                          |                               |                            |  |
| KB  | AP | 16314           | 10/01/80  | Europe  |       |                          |                               |                            |  |
| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)              |    |                 |   |   |       |                          |                               |                            |  |
| KB  |    | AQ              | Harless et al., Interactive Video Disc Case Studies for Medical Education, Proceedings, 10th Annual Symposium on Computer Applications in Medical Care, October 25-26, pp. 183-187. |   |       |                          |                               |                            |  |
| KB  |    | AR              | Bock, Videodisk Standards: A Software View of the Technology, 8012 SMPTE Journal, vol. 92, no. 5, May 1983, pp. 571-576.  |   |       |                          |                               |                            |  |
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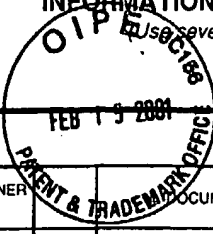
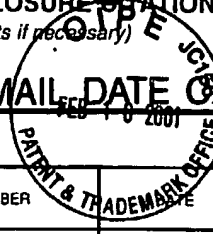

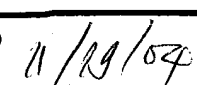
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|   |    |  |          | ATTY DOCKET NO.<br>5038.25  |       | SERIAL NO.<br>09/699,163   |                               |
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|   |    |  |          | FREEMAN et al.              |       | FILING<br>October 27, 2000 |                               |
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| EXAMINER<br>INITIAL   |    | DOCUMENT NUMBER  | DATE     | NAME                        | CLASS | SUBCLASS                   | FILING DATE<br>IF APPROPRIATE |
| KB  | BA | 4644515  | 2/17/87  | ALLEBEST et al.             |       |                            |                               |
|   | BB | 4694490  | 9/15/87  | HARVEY et al.               |       |                            |                               |
|   | BC | 4701896  | 10/20/87 | ALLEBEST et al.             |       |                            |                               |
|   | BD | 4704725  | 11/3/87  | HARVEY et al.               |       |                            |                               |
|   | BE | 4750036  | 6/7/88   | MARTINEZ                    |       |                            |                               |
|   | BF | 4763317  | 8/9/88   | LEHMAN et al.               |       |                            |                               |
|   | BG | 4786967  | 11/22/88 | SMITH, III et al.           |       |                            |                               |
|   | BH | 4807031  | 2/21/89  | BROUGHTON et al.            |       |                            |                               |
|   | BI | 4839743  | 6/13/89  | BEST et al.                 |       |                            |                               |
|   | BJ | 4846693  | 7/11/89  | BAER                        |       |                            |                               |
| KB  | BK | 4847700  | 7/11/89  | FREEMAN                     |       |                            |                               |
| FOREIGN PATENT DOCUMENTS  |    |  |          |                             |       |                            |                               |
|   |    | DOCUMENT NUMBER  | DATE     | COUNTRY                     | CLASS | SUBCLASS                   | TRANSLATION<br>YES NO         |
| KB  | BL | 8102961  | 10/15/81 | PCT                         |       |                            |                               |
| KB  | BM | 9403851  | 2/17/94  | PCT                         |       |                            |                               |
| KB  | BN | '314572  | 5/3/89   | Europe                      |       |                            |                               |
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| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)  |    |  |          |                             |       |                            |                               |
| KB  | BO | Campbell, Optimal Decision Making in a Business Simulation, System Sciences, 1989 Annual Hawaii International Conference, vol. III, pp. 822-831. |          |                             |       |                            |                               |
| KB  | BP | Dawson, Compression on the Fast Track, Cablevision, April 22, 1991, pp. 22-30.   |          |                             |       |                            |                               |
| EXAMINER<br>   |    |  |          | DATE CONSIDERED<br>11/19/04 |       |                            |                               |

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|  |    |   |          | FREEMAN et al.              |       |                          |                               |
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| KB   | CA | 4855827   | 8/8/89   | BEST                        |       |                          |                               |
|  | CB | 4862268   | 8/29/89  | CAMPBELL et al.             |       |                          |                               |
|  | CC | 4875096   | 10/17/89 | BAER et al.                 |       |                          |                               |
|  | CD | 4924303   | 5/8/90   | BRANDON et al.              |       |                          |                               |
|  | CE | 496582  | 10/23/90 | HARVEY et al.               |       |                          |                               |
|  | CF | 4975771   | 12/4/90  | KASSATLY                    |       |                          |                               |
|  | CG | 4987486   | 1/22/91  | JOHNSON et al.              |       |                          |                               |
|  | CH | 5001554   | 3/19/91  | JOHNSON et al.              |       |                          |                               |
|  | CI | 5010500   | 4/23/91  | MAKKUNI et al.              |       |                          |                               |
|  | CJ | 5014125   | 5/7/91   | POCOCK et al.               |       |                          |                               |
| KB   | CK | 5034807   | 7/23/91  | VON KOHORN                  |       |                          |                               |
| FOREIGN PATENT DOCUMENTS   |    |   |          |                             |       |                          |                               |
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| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)   |    |   |          |                             |       |                          |                               |
| KB   | CL | Martial et al., An Interactive Planner for Open Systems, Proceedings of the 4th Conference on Artificial Intelligence, March 1988, pp. 293-298. |          |                             |       |                          |                               |
| KB   | CM | Gault, Turning Cold Box Into Interactive TV, Crain's New York Business, July 15, 1991, p. 17.   |          |                             |       |                          |                               |
| EXAMINER<br><i>[Signature]</i>   |    |   |          | DATE CONSIDERED<br>11/19/07 |       |                          |                               |

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|  |                 |  |  | FREEMAN et al.             |          |                               |    |
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| EXAMINER<br>INITIAL  | DOCUMENT NUMBER | DATE   | NAME   | CLASS                      | SUBCLASS | FILING DATE<br>IF APPROPRIATE |    |
| KB   | DA              | 5,051,822  | 9/24/91  | RHOADES                    |          |                               |    |
|  | DB              | 5,093,718  | 3/3/92   | HOARTY et al.              |          |                               |    |
|  | DC              | 5,109,414  | 4/28/92  | HARVEY et al.              |          |                               |    |
|  | DD              | 5,157,491  | 10/20/92   | KASSATLY                   |          |                               |    |
|  | DE              | 5,177,604  | 1/5/93   | MARTINEZ                   |          |                               |    |
|  | DF              | 5,181,107  | 1/19/93  | RHOADES                    |          |                               |    |
|  | DG              | 5,220,420  | 6/15/93  | HOARTY et al.              |          |                               |    |
|  | DH              | 5,227,874  | 7/13/93  | VON KOHORN                 |          |                               |    |
|  | DI              | 5,236,199  | 8/17/93  | THOMPSON, Jr.              |          |                               |    |
|  | DJ              | 5,247,347  | 9/21/93  | LITTERAL et al.            |          |                               |    |
| KB   | DK              | 4,516,156  | 5/7/85   | FABRIS et al.              |          |                               |    |
| FOREIGN PATENT DOCUMENTS   |                 |  |  |                            |          |                               |    |
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| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)   |                 |  |  |                            |          |                               |    |
| KB   | DL              | Tsuruta et al., A Knowledge Based Interactive Train Scheduling System Aiming at Large Scale Complex Planning Expert Systems, International Workshop on Artificial Intelligence for Industrial Applications, 1988, pp. 490-495. |  |                            |          |                               |    |
| KB   | DM              | Gilder, Now or Never, Forbes, October 14, 1991, pp. 188-198.   |  |                            |          |                               |    |
| EXAMINER   |                 |  | DATE CONSIDERED  |                            |          |                               |    |
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| *EXAMINER<br>INITIAL | DOCUMENT NUMBER | DATE      | NAME     | CLASS              | SUBCLASS | FILING DATE<br>IF APPROPRIATE |
|----------------------|-----------------|-----------|----------|--------------------|----------|-------------------------------|
| KB                   | EA              | 4,305,131 | 12/8/81  | BEST               |          |                               |
|                      | EB              | 4,768,087 | 8/30/88  | TAUB et al.        |          |                               |
|                      | EC              | 5,176,520 | 1/5/93   | HAMILTON           |          |                               |
|                      | ED              | 5,318,450 | 6/7/94   | CARVER             |          |                               |
|                      | EE              | 5,174,759 | 12/2/92  | PRESTON et al.     |          |                               |
|                      | EF              | 4,926,255 | 5/15/90  | VON KOHORN         |          |                               |
|                      | EG              | 3,008,000 | 11/7/61  | MORCHAND           |          |                               |
|                      | EH              | 3,936,595 | 2/3/76   | YANAGIMACHI et al. |          |                               |
|                      | EI              | 3,988,528 | 10/26/76 | YANAGIMACHI et al. |          |                               |
|                      | EJ              | 4,333,152 | 6/1/82   | BEST               |          |                               |
| KB                   | EK              | 4,422,105 | 12/20/83 | RODESCH et al.     |          |                               |

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| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) |    |   |
|--|----|---|
| KB   | EL | Kim, First All-Digital HDTV Developed by Video Cipher, Multichannel News, June 11, 1990, p. 35.         |
| KB   | EM | Kim, ATC: Technical Tidal Wave to Engulf Cable Industry, Multichannel News, August 13, 1990, pp. 33-34. |

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|   |                 |   |                             | FREEMAN et al.             |          | FILING<br>October 27, 2000    |  |
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| *EXAMINER<br>INITIAL  | DOCUMENT NUMBER | DATE  | NAME                        | CLASS                      | SUBCLASS | FILING DATE<br>IF APPROPRIATE |  |
| KB  | FA 4,635,132    | 1/6/87  | NAKAMURA                    |                            | TC       |                               |  |
|   | FB 4,847,690    | 7/11/89   | PERKINS                     |                            | 2600     |                               |  |
|   | FC 2,612,553    | 9/30/52   | HOMRIGHOUS                  |                            | MAILROOM |                               |  |
|   | FD 2,777,901    | 1/15/57   | DOSTERT                     |                            |          |                               |  |
|   | FE 2,826,828    | 3/18/58   | HAMILTON                    |                            |          |                               |  |
|   | FF 2,908,767    | 10/13/59  | FRITZINGER                  |                            |          |                               |  |
|   | FG 2,921,385    | 1/19/60   | HAMILTON                    |                            |          |                               |  |
|   | FH 3,020,360    | 2/6/62  | GRATIAN et al.              |                            |          |                               |  |
|   | FI 3,194,895    | 7/13/65   | TREADWELL                   |                            |          |                               |  |
|   | FJ 3,221,098    | 11/30/65  | FELDMAN et al.              |                            |          |                               |  |
| KB  | FK 3,245,157    | 4/12/66   | LAVIANA                     |                            |          |                               |  |
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| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)  |                 |   |                             |                            |          |                               |  |
| KB  | FL              | Kim, Jerrold Offers Cable Digital Compression, Multichannel News, March 11, 1991, p. 6. |                             |                            |          |                               |  |
| KB  | FM              | Kim, Test Equipment for Digital Still a Puzzle, Multichannel News, May 27, 1991, p. 24. |                             |                            |          |                               |  |
| EXAMINER<br><i>[Signature]</i>  |                 |   | DATE CONSIDERED<br>11/19/04 |                            |          |                               |  |

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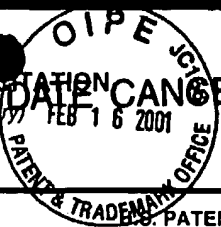
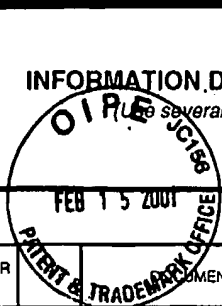
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|   |    |   |          | FREEMAN et al.              |       |                          |                               |
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| KB  | GA | 3,255,536   | 6/14/66  | LIVINGSTON                  |       | TC                       |                               |
|   | GB | 3,273,260   | 9/20/66  | WALKER                      |       | 2600                     |                               |
|   | GC | 3,284,923   | 11/15/66 | LESLIE                      |       | MAIL ROOM                |                               |
|   | GD | 3,343,280   | 9/26/67  | TOLNAI                      |       |                          |                               |
|   | GE | 3,366,731   | 1/30/68  | WALLERSTEIN                 |       |                          |                               |
|   | GF | 3,387,084   | 6/4/68   | HINE et al.                 |       |                          |                               |
|   | GG | 3,440,342   | 4/22/69  | BELTRAMI                    |       |                          |                               |
|   | GH | 3,477,144   | 11/11/69 | STILLIT                     |       |                          |                               |
|   | GI | 3,485,946   | 12/23/69 | JACKSON et al.              |       |                          |                               |
|   | GJ | 3,484,950   | 12/23/69 | SERRELL et al.              |       |                          |                               |
| KB  | GK | 3,538,621   | 11/10/70 | MAYEDA                      |       |                          |                               |
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| <b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>                             |    |   |          |                             |       |                          |                               |
| KB  | GL | Powell, Digitizing TV Into Obsolescence, New York Times, October 20, 1991.      |          |                             |       |                          |                               |
| KB  | GM | Waters et al., Talking Back to the Tube, Newsweek, December 3, 1990, pp. 56-57. |          |                             |       |                          |                               |
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| KB   | HA              | 3,546,791       | 12/15/70  | KOOS et al.                 |          |                               |             |    |
|  | HB              | 3,566,482       | 3/2/71  | MORCHAND                    |          |                               |             |    |
|  | HC              | 3,575,861       | 4/20/71   | PRATT et al.                |          |                               |             |    |
|  | HD              | 3,602,582       | 8/31/71   | TORRICELLI                  |          |                               |             |    |
|  | HE              | 3,623,238       | 11/30/71  | LAPLUME et al.              |          |                               |             |    |
|  | HF              | 3,665,615       | 5/30/72   | LAPLUME et al.              |          |                               |             |    |
|  | HG              | 3,708,891       | 1/9/73  | ROSOY                       |          |                               |             |    |
|  | HH              | 3,725,571       | 4/3/73  | JUSTICE                     |          |                               |             |    |
|  | HI              | 3,730,980       | 5/1/73  | KIRK, Jr.                   |          |                               |             |    |
|  | HJ              | 3,757,225       | 9/4/73  | ULICKI                      |          |                               |             |    |
| KB   | HK              | 3,774,316       | 11/27/73  | MEIER                       |          |                               |             |    |
| <b>FOREIGN PATENT DOCUMENTS</b>  |                 |                 |   |                             |          |                               |             |    |
|  |                 | DOCUMENT NUMBER | DATE  | COUNTRY                     | CLASS    | SUBCLASS                      | TRANSLATION |    |
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| <b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>  |                 |                 |   |                             |          |                               |             |    |
| KB   |                 | HL              | Will it Revolutionize HDTV? Broadcasting, June 4, 1990, pp. 33-34.  |                             |          |                               |             |    |
| KB   |                 | HM              | Video Storage in Digital Transmission, Space Technology, Cable Television Laboratories, Vol. 2, No. 7, September 1991, pp. 1-6. |                             |          |                               |             |    |
| EXAMINER<br>  |                 |                 |   | DATE CONSIDERED<br>11/19/07 |          |                               |             |    |
| *EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.  |                 |                 |   |                             |          |                               |             |    |



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FREEMAN et al.

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U.S. PATENT DOCUMENTS

| *EXAMINER<br>INITIAL | DOCUMENT NUMBER | DATE     | NAME           | CLASS | SUBCLASS | FILING DATE<br>IF APPROPRIATE |
|----------------------|-----------------|----------|----------------|-------|----------|-------------------------------|
| KB                   | IA 3,814,841    | 6/4/75   | ULICKI         |       |          |                               |
|                      | IB 3,825,674    | 7/23/74  | JUSTICE        |       |          |                               |
|                      | IC 3,833,760    | 9/3/74   | TICKLE         |       |          |                               |
|                      | ID 3,849,594    | 11/19/74 | JUSTICE        |       |          |                               |
|                      | IE 3,857,999    | 12/31/74 | JUSTICE        |       |          |                               |
|                      | IF 3,860,745    | 1/14/75  | TAKADA         |       |          |                               |
|                      | IG 3,902,007    | 8/26/75  | JUSTICE        |       |          |                               |
|                      | IH 3,916,092    | 10/28/75 | JUSTICE        |       |          |                               |
|                      | II 3,991,266    | 11/9/76  | BAER           |       |          |                               |
|                      | IJ 4,040,088    | 8/2/77   | HANNAN         |       |          |                               |
| KB                   | IK 4,044,380    | 8/23/77  | JUSTICE et al. |       |          |                               |

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| *EXAMINER<br>INITIAL | DOCUMENT NUMBER | DATE     | NAME             | CLASS | SUBCLASS | FILING DATE<br>IF APPROPRIATE |
|----------------------|-----------------|----------|------------------|-------|----------|-------------------------------|
| KB                   | JA 4,245,245    | 1/13/81  | MATSUMOTO et al. |       |          |                               |
|                      | JB 4,292,649    | 9/29/81  | MACHEBOEUF       |       | TC       |                               |
|                      | JC 4,331,974    | 5/25/82  | COGSWELL et al.  |       | 2600     |                               |
|                      | JD 4,381,522    | 4/26/83  | LAMBERT          |       | MAILROOM |                               |
|                      | JE 4,439,784    | 3/27/84  | FURUKAWA et al.  |       |          |                               |
|                      | JF 4,445,137    | 4/24/84  | PANOFISKY        |       |          |                               |
|                      | JG 4,445,187    | 4/14/84  | BEST             |       |          |                               |
|                      | JH 4,546,382    | 10/8/85  | MCKENNA et al.   |       |          |                               |
|                      | JI 4,555,730    | 11/26/85 | BRIGGS           |       |          |                               |
|                      | JJ 4,569,026    | 2/4/86   | BEST             |       |          |                               |
| KB                   | JK 4,571,640    | 2/18/86  | BAER             |       |          |                               |

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| <b>INFORMATION DISCLOSURE CITATION</b><br><small>(Use several sheets if necessary)</small><br><div style="position: absolute; top: 0; right: 0; text-align: right;"> <b>MAIL DATE CANCELLED</b><br/> <b>OIPF JC168</b><br/> <b>PATENT &amp; TRADEMARK OFFICE</b><br/> <b>FEB 13 2001</b> </div> |    |                 |          | ATTY DOCKET NO.<br>5038.25 |       | SERIAL NO.<br>09/699,163 |                               |    |
|---|----|-----------------|----------|----------------------------|-------|--------------------------|-------------------------------|----|
|   |    |                 |          | FREEMAN et al.             |       | GROUP<br>2611            |                               |    |
|   |    |                 |          | October 27, 2000           |       |                          |                               |    |
| <b>PATENT DOCUMENTS</b>   |    |                 |          |                            |       |                          |                               |    |
| *EXAMINER<br>INITIAL  |    | DOCUMENT NUMBER | DATE     | NAME                       | CLASS | SUBCLASS                 | FILING DATE<br>IF APPROPRIATE |    |
|   |    |                 |          |                            |       |                          | YES                           | NO |
| KB  | KA | 4,574,305       | 3/4/86   | CAMPBELL et al.            |       |                          |                               |    |
|   | KB | 4,591,248       | 5/27/86  | FREEMAN                    |       |                          |                               |    |
|   | KC | 4,599,611       | 7/8/86   | BOWKER et al.              |       |                          |                               |    |
|   | KD | 4,616,261       | 10/7/86  | CRAWFORD et al.            |       |                          |                               |    |
|   | KE | 4,647,980       | 3/3/87   | STEVENTON et al.           |       |                          |                               |    |
|   | KF | 4,733,301       | 3/22/88  | WRIGHT, Jr.                |       |                          |                               |    |
|   | KG | 4,734,764       | 3/29/88  | POCOCK et al.              |       |                          |                               |    |
|   | KH | 4,777,529       | 10/11/88 | SCHULTZ                    |       |                          |                               |    |
|   | KI | 4,780,757       | 10/25/88 | BRYER et al.               |       |                          |                               |    |
|   | KJ | 4,780,758       | 10/25/88 | LIN et al.                 |       |                          |                               |    |
| KB  | KK | 4,785,349       | 11/15/88 | KEITH et al.               |       |                          |                               |    |
| <b>FOREIGN PATENT DOCUMENTS</b>   |    |                 |          |                            |       |                          |                               |    |
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| <b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>   |    |                 |          |                            |       |                          |                               |    |
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FREEMAN et al.

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## PATENT DOCUMENTS

| *EXAMINER<br>INITIAL |    | DOCUMENT NUMBER | DATE     | NAME               | CLASS | SUBCLASS | FILING DATE<br>IF APPROPRIATE |
|----------------------|----|-----------------|----------|--------------------|-------|----------|-------------------------------|
| B                    | LA | 4,816,905       | 3/28/89  | TWEEDY et al.      |       |          |                               |
|                      | LB | 4,821,101       | 4/11/89  | SHORT              |       |          |                               |
|                      | LC | 4,847,698       | 7/11/89  | FREEMAN            |       |          |                               |
|                      | LD | 4,876,592       | 10/24/89 | VON KOHORN         |       |          |                               |
|                      | LE | 4,894,789       | 1/16/90  | YEE                |       |          |                               |
|                      | LF | 4,905,094       | 2/27/90  | POCOCK et al.      |       |          |                               |
|                      | LG | 4,918,516       | 4/17/90  | FREEMAN            |       |          |                               |
|                      | LH | 4,930,019       | 5/29/90  | CHU                |       |          |                               |
|                      | LI | 4,949,170       | 8/14/90  | YANAGIDAIRA et al. |       |          |                               |
|                      | LJ | 4,988,111       | 1/29/91  | GERLITZ et al.     |       |          |                               |
| B                    | LK | 4,989,233       | 1/29/91  | SCHAKAWSKY et al.  |       |          |                               |

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FREEMAN et al.

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## PATENT DOCUMENTS

| EXAMINER<br>INITIAL | DOCUMENT NUMBER | DATE     | NAME              | CLASS | SUBCLASS | FILING DATE<br>IF APPROPRIATE |
|---------------------|-----------------|----------|-------------------|-------|----------|-------------------------------|
| KB                  | MA 4,989,234    | 1/29/91  | SCHAKOWSKY et al. |       |          |                               |
|                     | MB 4,991,011    | 2/5/91   | JOHNSON et al.    |       |          |                               |
|                     | MC 4,994,908    | 2/19/91  | KUBAN et al.      |       |          |                               |
|                     | MD 5,010,400    | 4/23/91  | OTO               |       |          |                               |
|                     | ME 5,023,707    | 6/11/91  | BRIGGS            |       |          |                               |
|                     | MF 5,053,883    | 10/1/91  | JOHNSON           |       |          |                               |
|                     | MG 5,055,924    | 10/8/91  | SKUTTA            |       |          |                               |
|                     | MH 5,057,915    | 10/15/91 | VON KOHORN        |       |          |                               |
|                     | MI 5,077,607    | 12/31/91 | JOHNSON et al.    |       |          |                               |
|                     | MJ 5,090,708    | 2/25/92  | GERLITZ et al.    |       |          |                               |
| KB                  | MK 5,132,992    | 7/21/92  | YURT              |       |          |                               |

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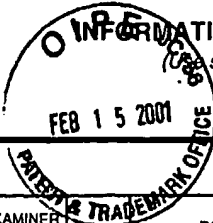
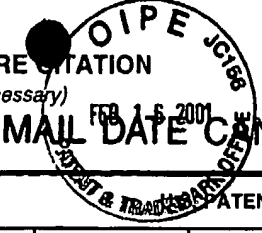

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| <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  </div> <div style="text-align: center;">  </div> </div> |    |                 |         | ATTY DOCKET NO.<br>5038.25 |       | SERIAL NO.<br>09/699,163 |   |               |
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|  |    |                 |         | FREEMAN et al.             |       |                          |   | GROUP<br>2611 |
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| EXAMINER<br>INITIAL  |    | DOCUMENT NUMBER | DATE    | NAME                       | CLASS | SUBCLASS                 | FILING DATE<br>IF APPROPRIATE               |               |
|  |    |                 |         |                            |       |                          |   |               |
| KB   | NA | 5,133,079       | 5/11/93 | BALLANTYNE                 |       |                          | RECEIVED<br>FEB 21 2001<br>102600 MAIL ROOM |               |
|  | NB | RE 32,776       | 11/1/88 | SAYLOR                     |       |                          |   |               |
|  | NC | RE 34,340       | 8/10/93 | FREEMAN                    |       |                          |   |               |
|  | ND | 3,763,377       | 10/9/73 | WESTON                     |       |                          |   |               |
|  | NE | 4,884,974       | 12/5/89 | DESMET                     |       |                          |   |               |
|  | NF | 3,643,217       | 2/15/72 | MORPHEW et al.             |       |                          |   |               |
|  | NG | 4,078,316       | 3/14/78 | FREEMAN                    |       |                          |   |               |
|  | NH | 4,199,781       | 4/22/80 | DOUMIT                     |       |                          |   |               |
|  | NI | 4,399,329       | 8/16/83 | WHARTON                    |       |                          |   |               |
|  | NJ | 4,665,431       | 5/12/87 | COOPER                     |       |                          |   |               |
| KB   | NK | 4,941,040       | 7/10/90 | POCOCK et al.              |       |                          |   |               |
| FOREIGN PATENT DOCUMENTS   |    |                 |         |                            |       |                          |   |               |
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| <b>FREE MAN et al.</b>  |                 |           |          | FILING<br>October 27, 2000 |          | GROUP<br>2611                 |  |
| <b>U.S. PATENT DOCUMENTS</b>  |                 |           |          |                            |          |                               |  |
| EXAMINER<br>INITIAL   | DOCUMENT NUMBER | DATE      | NAME     | CLASS                      | SUBCLASS | FILING DATE<br>IF APPROPRIATE |  |
| <i>KB</i>   | OA              | 5,210,611 | 5/11/93  | YEE et al.                 |          |                               |  |
|   | OB              | 5,239,617 | 8/24/93  | GARDNER et al.             |          |                               |  |
|   | OC              | 4,870,591 | 9/26/89  | CICCIARELLI et al.         |          |                               |  |
|   | OD              | 5,043,891 | 8/27/91  | GOLDSTEIN et al.           |          |                               |  |
|   | OE              | 5,340,317 | 8/23/94  | FREEMAN                    |          |                               |  |
|   | OF              | 4,972,328 | 10/20/90 | WU et al.                  |          |                               |  |
|   | OG              | 4,916,633 | 4/10/90  | TYCHONIEVICH et al.        |          |                               |  |
|   | OH              | 4,918,620 | 4/17/90  | ULUG                       |          |                               |  |
|   | OI              | 4,967,368 | 10/30/90 | BOLLING et al.             |          |                               |  |
|   | OJ              | 5,405,152 | 4/11/95  | KATANICS et al.            |          |                               |  |
| <i>KB</i>   | OK              | 5,537,141 | 7/16/96  | HARPER et al.              |          |                               |  |


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| EXAMINER <i>R. Kuan</i> | DATE CONSIDERED <i>11/19/04</i> |
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| *EXAMINER<br>INITIAL  |    | DOCUMENT NUMBER | DATE      | NAME                       | CLASS  | SUBCLASS                 | FILING DATE<br>IF APPROPRIATE |    |
| KB<br>TC 2600 MAILROOM<br>FEB 21 2001<br>RECEIVED   | PA | 5,239,463       | 8/23/93   | BLAIR et al.               |        |                          |                               |    |
|   | PB | 5,526,478       | 6/11/96   | RUSSELL, Jr. et al.        |        |                          |                               |    |
|   | PC | 5,488,411       | 1/30/96   | LEWIS et al.               |        |                          |                               |    |
|   | PD | 5,442,389       | 8/15/95   | BLAHUT et al.              |        |                          |                               |    |
|   | PE | 5,404,393       | 4/4/95    | REMILLARD                  |        |                          |                               |    |
|   | PF | 4,847,699       | 7/11/89   | FREEMAN                    |        |                          |                               |    |
|   | PG | 5,585,858       | 12/96     | HARPER et al.              |        |                          |                               |    |
|   | PH | 5,033,969       | 7/23/91   | KAMIMURA                   |        |                          |                               |    |
|   | PI | 5,109,482       | 4/28/92   | BOHRMAN                    |        |                          |                               |    |
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